LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

ABSTRACT FOR QUALITY CONTROL REPORTS

NAME OF WORK: Improvements to roads and drains at Amba Bhavani Nagara and surrounding areas in ward no. 03, Attur

Test details

SL NO	Item Executed	Name of tests	Quantity Executed	Unit	As per Frequency	Requried No of Tests	Actual No of Tests
1	CC	Cement Sand, Aggregates			One test per slot	1	1
2	Steel	Tensile strength	22.13	Tn		1	1
3	Slab 100mm	Compressive Strength	936.90	Sqm		1	1
4	Slab 250mm	Compressive Strength	37.32	Sqm		1	1
5	Kerb	Compressive Strength	1679	No's		1	1
6	Concrete Cubes M-20	Compressive Strength	359.14	Cum	1 to 5 - 1set 6 to 15 - 2set 16 to 30 -3set 31 to 50 - 4set 51 and above 4 plus one additional sample for each additional 50m3 or part thereof	11	11
7	Concrete Cubes M-10	Compressive Strength	198.47	Cum	1 to 5 - 1set 6 to 15 - 2set 16 to 30 -3set 31 to 50 - 4set 51 and above 4 plus one additional sample for each additional 50m3 or part thereof	7	7

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 19.10.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : Improvements to roads and drains at Amba Bhavani Nagara and surrounding areas in ward no. 03, Attur

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.10.2020	19.10.2020	8.145	196.5	8.73
2	12.10.2020	19.10.2020	8.132	200.1	8.89
3	12.10.2020	19.10.2020	8.121	203.1	9.03

Note:

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 10.11.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : Improvements to roads and drains at Amba Bhavani Nagara and surrounding areas in ward no. 03, Attur

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.10.2020	10.11.2020	8.174	284.7	12.65
2	13.10.2020	10.11.2020	8.163	291.3	12.95
3	13.10.2020	10.11.2020	8.156	278.3	12.37

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 11.11.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : Improvements to roads and drains at Amba Bhavani Nagara and surrounding areas in ward no. 03, Attur

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{10}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.10.2020	11.11.2020	8.174	296.3	13.17
2	14.10.2020	11.11.2020	8.192	288.4	12.82
3	14.10.2020	11.11.2020	8.164	301.4	13.40

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 12.11.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri.R.Ranganath,** No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : **Improvements to roads and drains at Amba Bhavani Nagara and surrounding areas in ward no. 03, Attur**

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.10.2020	12.11.2020	8.232	508.5	22.60
2	15.10.2020	12.11.2020	8.214	515.4	22.91
3	15.10.2020	12.11.2020	8.225	524.5	23.31

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ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 12.11.2020

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.
Agency	: **Sri.R.Ranganath,** No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Name of the work	: **Improvements to roads and drains at Amba Bhavani Nagara and surrounding areas in ward no. 03, Attur**
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.10.2020	12.11.2020	8.215	503.1	22.36
2	15.10.2020	12.11.2020	8.232	514.2	22.85
3	15.10.2020	12.11.2020	8.265	525.3	23.35

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LEO CONSTRUCTION & CONSULTANCY BENGALURU

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೧೦೬

LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 12.11.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : Improvements to roads and drains at Amba Bhavani Nagara and surrounding areas in ward no. 03, Attur

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.10.2020	12.11.2020	8.215	504.5	22.42
2	15.10.2020	12.11.2020	8.236	522.2	23.21
3	15.10.2020	12.11.2020	8.241	518.6	23.05

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 23.10.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : Improvements to roads and drains at Amba Bhavani Nagara and surrounding areas in ward no. 03, Attur

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2020	23.10.2020	8.187	348.9	15.51
2	16.10.2020	23.10.2020	8.163	358.4	15.93
3	16.10.2020	23.10.2020	8.192	336.0	14.93

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LEO CONSTRUCTION & CONSULTANCY BENGALURU

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 13.11.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri.R.Ranganath,** No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : **Improvements to roads and drains at Amba Bhavani Nagara and surrounding areas in ward no. 03, Attur**

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2020	13.11.2020	8.215	508.9	22.62
2	16.10.2020	13.11.2020	8.232	515.3	22.90
3	16.10.2020	13.11.2020	8.225	528.3	23.48

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 23.10.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : Improvements to roads and drains at Amba Bhavani Nagara and surrounding areas in ward no. 03, Attur

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.10.2020	23.10.2020	8.195	351.5	15.62
2	16.10.2020	23.10.2020	8.174	346.2	15.39
3	16.10.2020	23.10.2020	8.182	359.9	16.00

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LEO CONSTRUCTION & CONSULTANCY BENGALURU

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಜಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-೧೦೯

LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 24.10.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri.R.Ranganath,** No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : **Improvements to roads and drains at Amba Bhavani Nagara and surrounding areas in ward no. 03, Attur**

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Gross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.10.2020	24.10.2020	8.154	349.5	15.53
2	17.10.2020	24.10.2020	8.163	359.6	15.98
3	17.10.2020	24.10.2020	8.166	372.5	16.56

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CONSTRUCTION & CONSULTANCY BENGALURU

LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 24.10.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri.R.Ranganath,** No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : **Improvements to roads and drains at Amba Bhavani Nagara and surrounding areas in ward no. 03, Attur**

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.10.2020	24.10.2020	8.164	354.6	15.76
2	17.10.2020	24.10.2020	8.143	360.3	16.01
3	17.10.2020	24.10.2020	8.175	340.3	15.12

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LEO CONSTRUCTION & CONSULTANCY BENGALURU

LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 24.10.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri.R.Ranganath,** No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : **Improvements to roads and drains at Amba Bhavani Nagara and surrounding areas in ward no. 03, Attur**

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.10.2020	24.10.2020	8.184	351.1	15.60
2	17.10.2020	24.10.2020	8.192	360.3	16.01
3	17.10.2020	24.10.2020	8.175	345.3	15.35

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ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 14.11.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri.R.Ranganath,** No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of the work : **Improvements to roads and drains at Amba Bhavani Nagara and surrounding areas in ward no. 03, Attur**

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.10.2020	14.11.2020	8.215	505.4	22.46
2	17.10.2020	14.11.2020	8.232	515.2	22.90
3	17.10.2020	14.11.2020	8.265	526.3	23.39

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LEO CONSTRUCTION & CONSULTANCY BENGALURU

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ENGINEERING PROJECT CONSULTANTS

Ref. No.: LEO/BBMP/W.No.03/2020-21

Date: 11.11.2020

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Contractor	:	: Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010
Name of Work	:	Improvements to roads and drains at Amba Bhavani Nagara and surrounding areas in ward no. 03, Attur
No of Sample Tested	:	03
Date of Testing	:	11.11.2020
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.355	2317.95	1.56	0.960	33.50	17.06	18.43	17.69	22.11
2	50.00	79.00	0.364	2346.63	1.58	0.960	35.20	17.93	19.36	18.59	23.23
3	50.00	80.00	0.371	2361.86	1.60	0.960	36.10	18.39	19.86	19.06	23.83

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LEO CONSTRUCTION & CONSULTANCY BENGALURU

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

No. LEO/BBMP/W.No.03/2020-21

Date: 11.11.2020

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

: Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

: : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

: Improvements to roads and drains at Amba Bhavani Nagara and surrounding areas in ward no. 03, Attur

: 03

: 11.11.2020

: IS:516-1959 (Reaffirmed 1999), SP-24:1983.

: M_{20}

S.No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	100.00	134.00	2.429	2307.98	1.34	0.960	142.50	18.14	19.60	18.81	23.51
2	100.00	136.00	2.467	2309.62	1.36	0.960	138.20	17.60	19.00	18.24	22.80
3	100.00	138.00	2.477	2285.37	1.38	0.960	141.80	18.05	19.50	18.72	23.40

Note:
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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 30days from the date of testing.

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No: LEO/BBMP/W.No.03/2020-21

Date 09.10.2020

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of Work : Improvements to roads and drains at Amba Bhavani Nagara and surrounding areas in ward no. 03, Attur

Date of Testing 09.10.2020

Material : Sand

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	49	4.90	4.90	95.1	90-100
2.36	138	13.80	18.70	81.3	75-100
1.18	146	14.60	33.30	66.7	55-90
600 Micron	163	16.30	49.60	50.4	35-59
300 Micron	254	25.40	75.00	25.0	8-30
150 Micron	184	18.40	93.40	6.6	0-10

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ENGINEERING PROJECT CONSULTANTS

Date: 09.10.2020

TEST REPORT ON COARSE AGGREGATES

IS 383-1970 (RA- 2002)

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of Work : Improvements to roads and drains at Amba Bhavani Nagara and surrounding areas in ward no. 03, Attur

Date of Testing 09.10.2020

Material : 20mm Aggregates

Total wt. of aggregates in gms = 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	140	2.8	2.8	97.2	95-100
10	2512	50.2	53.0	47.0	25-55
4.75	2034	40.7	93.7	6.3	0-10

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LEO CONSTRUCTION & CONSULTANCY

ENGINEERING PROJECT CONSULTANTS

Job No.: LEO/BBMP/W.No.03/2020-21

Date: 14.10.2020

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : Executive Engineer, Yelahanka Division, BBMP, Bengaluru.

Agency : Sri.R.Ranganath, No:37,19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram, Bangalore-560010

Name of Work : Improvements to roads and drains at Amba Bhavani Nagara and surrounding areas in ward no. 03, Attur

Sample Identification : 8mm,10mm,12mm Fe 500 TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 14.10.2020

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.33	556	610	14.5
2	Fe 500	10	0.65	568	621	17
3	Fe 500	12	0.84	580	638	19

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